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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,435	10/28/2003	Gururaj Pangal	112-0123US	4461
29855	7590	08/04/2005	EXAMINER	
WONG, CABELLO, LUTSCH, RUTHERFORD & BRUCCULERI, P.C. 20333 SH 249 SUITE 600 HOUSTON, TX 77070			SUN, SCOTT C	
		ART UNIT		PAPER NUMBER
		2182		
DATE MAILED: 08/04/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/695,435	PANGAL ET AL.
	<b>Examiner</b>	<b>Art Unit</b>
	Scott Sun	2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
 THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 28 October 2003.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-32 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                    | Paper No(s)/Mail Date: _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 10-12, 19-21, 28-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamamoto (US PUB 2002/0152339 A1).

As per claim 1, Yamamoto discloses a storage processing device, comprising an input/out module including:

Port processors to receive and transmit network traffic; (paragraph 22)

And a switch coupling said port processors; (paragraph 20, 23)

And a control module coupled to said input/output module, said input/output module and said control module being configured to interactively support data virtualization. (paragraph 21)

As per claim 2, Yamamoto discloses the storage processing device of claim 1, wherein said port processors include a port processor with a frame classification module, a virtual target task, and a virtual initiator task (paragraph 29)

As per claim 3, Yamamoto discloses the storage processing device of claim 2, wherein said input/output module and said control module support a virtualization processor including a virtual target, a volume manager mapping block, and a virtual initiator (paragraph 29, line 20, paragraphs 35-39)

As per claim 4, Yamamoto discloses volume manager mapping block provides virtual block to physical block mappings (paragraphs 29 and 42)

As per claim 5, Yamamoto discloses the storage processing device of claim 3, wherein said port processors include a port processor with a frame classification module, a virtual target task, and a virtual initiator task (paragraphs 29, 35-39)

As per claim 6, Yamamoto discloses the storage processing device of claim 5, wherein said port processor utilizes said volume mapping block and said virtual target task to translate received frames from a virtual target to a physical target (paragraph 29)

As per claim 7, Yamamoto discloses the storage device of claim 6, wherein said port processor utilizes said virtual initiator task to transmit frames to the physical target and receive response frames from the physical target (paragraphs 32-34)

As per claim 8, Yamamoto discloses the storage device of claim 8, wherein the virtual target translates to two physical targets and wherein said port processor utilizes said virtual target task to prepare a command frame for the second physical target and said virtual initiator to transmit said command frame to the second physical target (paragraph 41)

As per claims 9-32, the examiner finds these claims different from claims 1-3 only in statutory category. The references and reasons cited for rejection of claim 1-3 apply in the same manner as applied to claim 1-3. A further note is made regarding claims 9 and 17, the limitation of "at least one host and at least two storage devices" is also disclosed by Yamamoto (paragraph 17)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Sun whose telephone number is (571) 272-2675. The examiner can normally be reached on M-F, 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on (571) 272-2675. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



TAMMARA PEYTON  
PRIMARY EXAMINER

SS  
7/29/05